PENDING CLAIMS AS AMENDED

Please amend the claims as follows:

1. (original) In a wireless communication system adapted for packet data transmissions, the system having at least one mobile station with pending data at a transmitter, a method comprising:

calculating a packet delay time for a first receiver of the at least one mobile station with pending data;

comparing the packet delay time to a first threshold;

if the packet delay time violates the first threshold, calculating a first delay term; calculating a priority function for the first receiver using the first delay term; and scheduling transmissions to the receiver according to the priority function.

2. (currently amended) The method of Claim 1, In a wireless communication system adapted for packet data transmissions, the system having at least one mobile station with pending data at a transmitter, a method comprising:

calculating a packet delay time for a first receiver of the at least one mobile station with pending data;

comparing the packet delay time to a first threshold;

if the packet delay time violates the first threshold, calculating a first delay term;

calculating a priority function for the first receiver using the first delay term; and

scheduling transmissions to the receiver according to the priority function, wherein a[the] packet delay time function is calculated as:

g(d)=k for packet delay time requirement less than the first threshold, wherein g(d) is the packet delay time function and k is an integer.

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3. (currently amended) The method of Claim 1 In a wireless communication system adapted for packet data transmissions, the system having at least one mobile station with pending data at a transmitter, a method comprising:

calculating a packet delay time for a first receiver of the at least one mobile station with pending data;

comparing the packet delay time to a first threshold;

if the packet delay time violates the first threshold, calculating a first delay term; calculating a priority function for the first receiver using the first delay term; and

scheduling transmissions to the receiver according to the priority function, wherein \underline{a} [the] packet delay time function is calculated as:

g(d)=DRCMAX/DRCAVE for packet delay time requirement greater than the first threshold, wherein DRCMAX is a maximum of DRC values for receivers in an active set of the transmitter, and wherein DRCAVE is an average DRC value for the first receiver, wherein DRC is a data rate associated with at least one mobile station and wherein g(d) is a packet delay time function.

- 4. (original) In a wireless communication system adapted for packet data transmissions, a method comprising: identifying a user having a packet delay higher than a threshold; and adjusting the priority of the user while the packet delay is higher than the threshold.
- 5. (new) The method of Claim 4, wherein the threshold is updated during operation of the system.
- 6. (new) In a wireless communication system adapted for packet data transmissions, a computer executing logic comprising:

identifying a user having a throughput higher than a threshold; and adjusting the priority of the user while the throughput is higher than the threshold.

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- 7. (new) The system of Claim 6, wherein the threshold is updated during operation of the system.
- 8. (new) The method of Claim 1, wherein the first delay term is calculated as:

 $g(d)=1+k*MAX(0, (d_i-\tau_i))$ for packet delay time requirement greater than the first threshold, wherein k is an integer, d_i is a delay time requirement of an i^{th} mobile station, and τ_i is a threshold associated with the i^{th} mobile station.

- 9. (new) The method of Claim 1, wherein the threshold is updated during operation of the system.
- 10. (new) The method of Claim 1, wherein a single threshold is used for all mobile stations in the system.
- 11. (new) The method of Claim 1, wherein at least two mobile stations in the system are associated with respective thresholds.
- 12. (new) The method of Claim 4, wherein a single threshold is used for all mobile stations in the system.
- 13. (new) The method of Claim 4, wherein at least two mobile stations in the system are associated with respective thresholds.
- 14. (new) The system of Claim 6, wherein at least two mobile stations in the system are associated with respective thresholds.
- 15. (new) The system of Claim 6, wherein a single threshold is used for all mobile stations in the system.

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- 16. (new) A base station comprising:
 means for receiving, from a mobile user, a user packet delay requirement; and
 means, responsive to the means for receiving, for establishing a priority of the user based
 at least in part on the user packet delay requirement.
- 17. (new) In a wireless communication system adapted for packet data transmissions, a computer executing logic comprising:

identifying a user having a packet delay requirement;
comparing the packet delay requirement to a threshold; and adjusting the priority of the user based on the comparison.

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